

CLAIMS

1. An electric insulation device (11, 12, 13, 14) of an air conditioner divided into an indoor unit (2) and an outdoor unit (3), the electric insulation device
5 (11, 12, 13, 14) serving to electrically insulate connection lines (4, 5) that connect refrigerant lines (2a, 2b) of the indoor unit (2) with refrigerant lines (2a, 3b) of the outdoor unit (3) and circulate refrigerant, from the refrigerant lines (2a, 2b) of the indoor unit (2) or the refrigerant lines (3a, 3b) of the outdoor unit (3), the electric insulation device (11, 12, 13, 14) comprising:

10 a refrigerant line connection portion (21) that is installed on an exterior of the indoor unit (2) and the outdoor unit (3), and connected respectively to the refrigerant line (2a, 2b) of the indoor unit (2) and the refrigerant line (3a, 3b) of the outdoor unit (3);

15 a connection line connection portion (22) that is connected to the connection line (4, 5); and

an insulation portion (23) that can both electrically insulate the refrigerant line connection portion (21) and the connection line connection portion (22), and circulate refrigerant.

20 2. The electric insulation device (11, 12, 13, 14) of an air conditioner disclosed in claim 1, wherein

25 a terminal portion (24) on which an electric connection line (2c, 2d, 3c, 3d) is mounted in order to transmit electric signals from the indoor unit (2) and the outdoor unit (3) to the connection lines (4, 5) is arranged between the connection line connection portion (22) and the insulation portion (23).

3. An air conditioner, comprising:

an indoor unit (2);

an outdoor unit (3);

connection lines (4, 5) that connect refrigerant lines (2a, 2b) of the indoor unit (2) and refrigerant lines (3a, 3b) of the outdoor unit (3), and circulate refrigerant; and

5 electric insulation devices (11, 12, 13, 14) disclosed in claims 1 or 2 that are respectively arranged between the refrigerant lines (2a, 2b) and the connection lines (4, 5) of the indoor unit (2), and between the refrigerant lines (3a, 3b) and the connection lines (4, 5) of the outdoor unit (3).